

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Randall B. Lauffer et al. Art Unit : Unknown
Serial No. : Examiner : Unknown
Filed : January 16, 2004
Title : BIOACTIVATED DIAGNOSTIC IMAGING CONTRAST AGENTS

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449.

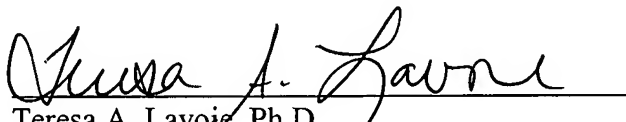
Under 35 USC §120, this application relies on the earlier filing date of application serial number 09/952,971, filed on September 14, 2001. The references were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

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Respectfully submitted,

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1/16/2004


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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13498-019003	Application No.
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Randall B. Lauffer et al.	
		Filing Date January 16, 2004	Group Art Unit

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,880,008	11/1989	Lauffer			
	AB	4,899,755	02/1990	Lauffer et al.			
	AC	5,094,848	03/1992	Brixner			
	AD	5,171,563	12/1992	Abrams et al.			
	AE	H1312	05/1994	Coughlin et al.			
	AF	RE 35,524	06/1997	Saulnier et al.			
	AG	5,707,605	01/998	Meade et al.			
	AH	5,783,662	07/1998	Janmey et al.			
	AI	5,932,188	08/1999	Snow et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AJ	EP 264,333	04/1998	EPO				
	AK	WO 91/03200	03/1991	PCT				
	AL	WO 95/15306	06/1995	PCT				
	AM	WO 95/15319	06/1995	PCT				
	AN	DE 19507822	08/1996	Germany				
	AO	WO 96/23526	08/1996	PCT				
	AP	WO 96/38184	12/1996	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AQ	Allen et al., "Liposomes containing synthetic lipid derivatives of poly (ethylene glycol) show prolonged circulation half-lives in vivo," <u>Biochim. Biophys. Acta</u> , 1991, 1066:29-36
	AR	Blau, "Radiotracers for Functional Brain Imaging," <u>Seminars in Nuclear Medicine</u> , Vol. XV, No. 4 (October 1985)
	AS	Brechbiel et al., "Synthesis of 1-(p-Isothiocyanatobenzyl) Derivatives of DTPA and EDTA. Antibody Labeling and Tumor-Imaging Studies," <u>Inorg. Chem.</u> , 1986, 25:2772-2781
	AT	Cacheris et al., "The Relationship between Thermodynamics and the Toxicity of Gadolinium Complexes," <u>Mag. Res. Imag.</u> , 1990, 8:467-481
	AU	Carter and Ho, "Structure of Serum Albumin," <u>Adv. Protein Chem.</u> , 1994, 45:153-203

Examiner Signature	Date Considered
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	AV	Chan et al., "In vitro studies on the Hypoxic Retention of a Novel Technetium – 99m Labeled Nitroimidazole in Rat Heart," <u>J. Nuclear Med.</u> , 1994, 35:18P, Abstract No. 65
	AW	Chu, "The Quantitative Analysis of Structure-Activity Relationships," <u>Burger's Medicinal Chemistry</u> , Part 1, 1980, 4 th ed., pp. 393-418
	AX	Cox et al., "Synthesis of C- and N- Functionalised Derivatives of 1,4,7 – Triazacyclonon-ane-1,4,7-triyltriacetic acid (NOTA), 1,4,7,10 – Tetra-azacyclododecane-1,4,7,10 – tetrayltetra-acetic Acid (DOTA), and Diethylenetriaminepenta-acetic Acid (DTPA): Bifunctional Complexing Agents for the Derivatisation of Antibodies," <u>J. Chem. Soc. Perkin Transactions I</u> , 1990, pp. 2567-2576
	AY	Green et al., "Protection for the Hydroxyl Group, including 1,2- and 1,3-Diols," <u>Protective Groups in Organic Synthesis</u> , 1981, 2 nd ed., J. Wiley & Sons, pp. 10-86
	AZ	Harris et al., "Ferric Ion Sequestering Agents. 6. The Spectrophotometric and Potentiometric Evaluation of Sulfonated Tricatcholate Ligands," <u>J. Am. Chem. Soc.</u> , 1981, 103:2667
	AAA	Harris et al., "Spectrophotometric Determination of the Proton-Dependent Stability Constant of Ferric Enterobactin," <u>J. Am. Chem. Soc.</u> , 1979, 101:2213
	ABB	He and Carter, "Atomic Structure and Chemistry of Human Serum Albumin," <u>Nature</u> , 1992, 358:209-215
	ACC	Hoey and Smith, "Chemistry of X-Ray Contrast Media," <u>Radiocontrast Agents</u> , 1984, Springer-Verlag, NY, Chapter 1, pp. 23-125
	ADD	Horrocks and Albin, "Lanthanide Ion Luminescence in Coordination Chemistry and Biochemistry," <u>Progr. Inorg. Chem.</u> , 1984, 31:1-104
	AEE	Kragh-Hansen, "Molecular Aspects of Ligand Binding to Serum Albumin," <u>Pharm. Rev.</u> , 1981, 33:17-53
	AFF	Kumar et al., "Equilibrium and Kinetic Studies of Lanthanide Complexes of Macrocyclic Polyamino Carboxylates," <u>Inorg. Chem.</u> , 1993, 32:587-593
	AGG	Lauffer, "Paramagnetic Metal Complexes as Water Proton Relaxation Agents for NMR Imaging: Theory and Design," <u>Chemical Reviews</u> , 1987, 87:901-927
	AHH	Leo, "Partition Coefficients and their Uses," <u>Chemical Reviews</u> , 1971, 71:525-616
	AII	March, <u>Advanced Organic Chemistry: Reactions, Mechanisms, and Structure</u> , 1992, 4 th ed., J. Wiley & Sons, pp. 392-396
	AJJ	McMurry et al., "Convenient Synthesis of Bifunctional Tetraaza Macrocycles," <u>Bioconjugate Chemistry</u> , 1992, 3:108-117
	AKK	Okezaki et al., "Structure-Tissue Distribution Relationship Based on Physiological Pharmacokinetics for NY-198, A New Antimicrobial Agent, and the Related Pyridonecarboxylic Acids," <u>Drug Metabolism and Disposition</u> , 1988, 16:865-874
	ALL	Paphadjopoulos et al., "Sterically Stabilized Liposomes: Improvements in Pharmacokinetics and Antitumor Therapeutic Efficacy," <u>Proc. Natl. Acad. Sci. USA</u> , 1991, 88:11460-11464
	AMM	Roda et al., "Quantitative Aspects of the Interaction of Bile Acids with Human Serum Albumin," <u>J. Lipid Research</u> , 1982, 23:490-495
	ANN	Rolinson and Sutherland, "The Binding of Antibiotics to Serum Proteins," <u>British J. Pharmacol.</u> , 1965, 25:638-650
	AOO	Schumhmann-Giampieri et al., "Preclinical Evaluation of Gd-EOB-DTPA as a Contrast Agent in MR Imaging of the Hepatobiliary System," <u>Radiology</u> , 1992, 183:59-64

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	APP	Tinoco et al., "Equilibrium Dialysis and Scatchard Plots," <u>Physical Chemistry: Principles and Applications in Biological Sciences</u> , 1985, 2 nd ed., Prentice-Hall, pp. 172-177
	AQQ	Villringer et al., "Dynamic Imaging with Lanthanide Chelates in Normal Brain: Contrast Due to Magnetic Susceptibility Effects," <u>Mag. Res. Med.</u> , 1988, 6:164-174
	ARR	Watson et al., "Contrast Agents in Magnetic Resonance," <u>Magnetic Resonance Imaging</u> , 1992, 2 nd ed., Mosby-Year Book, Inc., Vol. 1, Chapter 14
	ASS	Williams and Rappaport, "Synthesis of Enantiomerically Pure Diethylenetriaminepentaacetic Acid Analogues. L-Phenylalanine as the Educt for Substitution at the Central Acetic Acid," <u>J. Org. Chem.</u> , 1993, 58:1151-1158
	ATT	Wright et al., "Heats and Entropies of Formation of Metal Chelates of Polyamine and Polyaminocarboxylate Ligands," <u>Anal. Chem.</u> , 1965, 37:884-892

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